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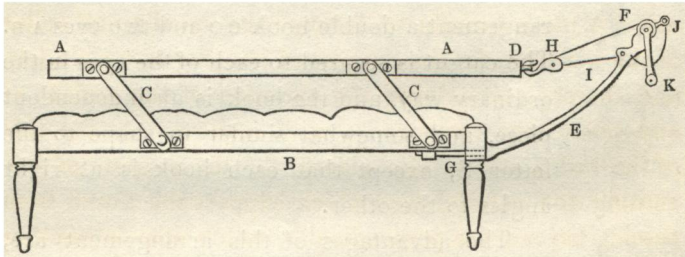
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frame is required to be raised, the hook of the pulley H is inserted; the strap I is fixed to the arm E, and passing round the pulley H, returns to the barrel F, movable on an axis in the top of the arm E, and which barrel F is moved round by the handle K, thus winding up the strap, and elevating the invalid frame.



In order to retain the frame A A in its elevated position, a pin J, secured by a string to the arm, is passed through the collar and axis of the barrel. When it is required to lower the frame, it is only necessary to remove the pin.

No. VI.

LATHE-BAND HOOK.

The Thanks of the Society were voted to Mr. SAMUEL NICHOLLS, of No. 19 Salter's Alley, Wapping, for his Hook for connecting Catgut Lines used in Machinery; a Model of which has been placed in the Society's Repository.

19 Salter's Alley, Wapping,

SIR,

November 16, 1841.

THE enclosed is an improved hook for a lathe-band, which, by permission, I leave for your inspection.

I am, Sir, &c. &c.

*To the Secretary of the
Society of Arts.*

SAMUEL NICHOLLS.



The ordinary method of connecting the ends of catgut, when used as an endless line for machinery, is by means of a steel hook and eye, the hollow stem of each being screw-tapped, for the purpose of holding the catgut.

Mr. Nicholls substitutes for the above arrangement a double hook *c c* and two eyes *A B*. The catgut is secured to each of the eyes in the ordinary way, and the hook is an independent piece, and somewhat similar in shape to the letter *S*, except that each hook is at right angles to the other.

The advantages of this arrangement are, that the hook is less liable to jump on the pulley, it affords more play for the twist of the band, and the openings of the hooks being made very small, the eyes are not liable to be unhooked.

No. VII.

EXEMPLIFYING MULTIPLICATION-TABLE.

The Thanks of the Society were voted to Dr. CHARLES WILLIAMS, of Charles Street, Westminster, for his Mechanical Table for Teaching Arithmetic; a Model of which has been placed in the Society's Repository.

SIR,

I BEG permission to submit, for the consideration of the Society of Arts, my Exemplifying Table for illustrating the principles of arithmetic.

A very little reasoning will suffice to shew that, in